



Docket No. 1232-5077

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Sakaе SUDA et al.

Group Art Unit: 1714

Serial No.: 10/613,589

Examiner: Callie E. SHOSHO

Filed: July 2, 2003

For: POLYMER COMPOSITION, IMAGE-FORMING METHOD AND IMAGE-FORMING APPARATUS

**CERTIFICATE OF MAILING (37 C.F.R. §1.8(A))**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I hereby certify that the attached:

1. Information Disclosure Statement;
2. Form PTO-1449 listing 18 U.S. patents, 1 U.S. Patent Application publication, 9 foreign publications and 6 non-patent literature references
3. Copies of foreign publications (along with English abstracts) and non-patent literature references listed on PTO-1449.
4. Return Postcard

along with any paper(s) referred to as being attached or enclosed and this Certificate of Mailing are being deposited with the United States Postal Service on date shown below with sufficient postage as first-class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

Dated: June 15, 2006

By: Steven F. Meyer

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**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98. The items listed on Form PTO-1449, a copy of which is enclosed, are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

1. ☒ For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:  
JP 11-322942, JP 11-322866, JP 11-080211, JP 59-138461, JP 59-123670 and WO 02/100918
2. ☐ For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.
3. ☐ Any copy of the items listed on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in application Serial No. \_\_\_\_\_, filed \_\_\_\_\_.
4. ☐ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:

- ☐ 37 C.F.R. §1.97(b)(1), within three months of the filing date of a national application other than a CPA; or
- ☐ 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application; or
- ☐ 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits; or
- ☐ 37 C.F.R. §1.97(b)(4) before the mailing date of a first office action after the filing of an RCE under §1.114.
5. ☐ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below.
6. ☒ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):
- ☐ A check in the amount of \$180.00 is enclosed in payment of the fee.
- ☒ Charge the fee to Deposit Account No. 13-4500, Order No. 1232-5077. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.
7. ☐ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:
- a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below; and
- b. the fee due under 37 C.F.R. §1.17(p) which is paid as set forth in paragraph 11 below.
8. ☐ This Information Disclosure Statement is being filed in compliance with:
- a. ☐ 37 C.F.R. §1.313(b)(3) or §1.313(c)(1), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h);
- b. ☐ 37 C.F.R. §1.313(c)(2) or §1.313(c)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Request for Continued Examination (RCE) or a Continuation application upon abandonment of the instant application and is accompanied by the

attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h).

- c. ☐ The fee due under 37 C.F.R. §§1.17(h) is paid as set forth in paragraph 11 below.
9. ☐ I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
10. ☐ This document is accompanied by ☐ a Search Report ☐ Communication which was cited in a corresponding ☐ PCT or ☐ Foreign counterpart application
11. ☐ A check in the amount of \$ \_\_\_\_\_ is enclosed in payment of the fees due under 37 C.F.R. §§1.17(h) and 1.17(p).
- ☐ Charge the fees due under 37 C.F.R. §§1.17(h) and 1.17(p) to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 1232-5077. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

Dated: June 15, 2006

By: \_\_\_\_\_

Steven F. Meyer

Steven F. Meyer

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## FORM PTO-1449A

## INFORMATION DISCLOSURE CITATION

Attorney Docket:  
1232-5077Serial No.:  
10/613,589Applicant:  
Sakae SUDA et al.Filing Date:  
July 2, 2003Group Art Unit:  
Callie E. SHOSHO

## U.S. PATENT / PUBLICATION DOCUMENTS

Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
	1.	6,875,798	Apr. 5, 2005	Yui et al.	10/23/01
	2.	6,616,946	Sep. 9, 2003	Meier et al.	11/15/00
	3.	6,380,315	Apr. 30, 2002	Fischer et al.	2/5/97
	4.	6,375,742	Apr. 23, 2002	Sano et al.	4/23/02
	5.	6,313,066	Nov. 6, 2001	Takayama	3/30/00
	6.	6,033,466	Mar. 7, 2000	Ito	8/4/97
	7.	5,399,631	Mar. 21, 1995	Egawa et al.	5/25/93
	8.	5,198,319	Mar. 30, 1993	Kato	5/21/91
	9.	5,139,574	Aug. 18, 1992	Winnik et al.	1/28/91
	10.	5,085,698	Feb. 4, 1992	Ma et al.	4/11/90
	11.	4,740,796	Apr. 26, 1988	Endo et al.	2/6/86
	12.	4,723,129	Feb. 2, 1988	Endo et al.	2/6/86
	13.	4,558,333	Dec. 10, 1985	Sugitani et al.	7/2/82
	14.	4,463,359	Jul. 31 1984	Ayata et al.	3/24/80
	15.	4,459,600	Jul. 10, 1984	Sato et al.	11/25/81
	16.	4,345,262	Aug. 17, 1982	Shirato et al.	2/7/80
	17.	4,313,124	Jan. 26, 1982	Hara	5/13/80
	18.	3,062,892	Nov. 6, 1962	Schneider	8/1/60
	19.	2003/0153649	Aug. 14, 2003	Bromberg	1/24/02
	20.				
	21.				
	22.				
	23.				

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609.  
Draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to Applicant.

<b>FORM PTO-1449A</b>  <b>INFORMATION DISCLOSURE CITATION</b>	Attorney Docket: 1232-5077	Serial No.: 10/613,589
	Applicant: Sakae SUDA et al.	
	Filing Date: July 2, 2003	Group Art Unit: Callie E. SHOSHO

### FOREIGN PATENT DOCUMENTS

Examiner Initial		Patent Number	Publication Date	Country	Copy Filed	Translation
	24.	11-322942	11/26/1999	JP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Abstract <input type="checkbox"/> N/A
	25.	11-322866	11/26/1999	JP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Abstract <input type="checkbox"/> N/A
	26.	11-080211	3/26/1999	JP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Abstract <input type="checkbox"/> N/A
	27.	59-138461	8/8/1984	JP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Abstract <input type="checkbox"/> N/A
	28.	59-123670	7/17/1984	JP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Abstract <input type="checkbox"/> N/A
	29.	02/100918	12/19/2002	WO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Abstract <input type="checkbox"/> N/A
	30.	1 422 255	5/26/2004	EP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstract <input checked="" type="checkbox"/> N/A
	31.	1 285 948	2/26/2003	EP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstract <input checked="" type="checkbox"/> N/A
	32.	1 243 624	9/25/2002	EP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstract <input checked="" type="checkbox"/> N/A
	33.					
	34.					

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	35.	Morrison, Robert Thorton and Boyd, Robert Neilson; Organic Chemistry 5 <sup>th</sup> Edition; Allyn and Bacon Inc. Boston, 1987 (page 700).
	36.	Laus, Michele, Bignozzi, Maria Chiara, Fagnani, Marco and Angeloni, Annino Sante; "Liquid Crystalline Poly(vinyl ether)s and Block Copoly(vinyl ether)s by Living Cationic Polymerization", Macromolecules, Vol. 29(15), 1996 (pages 5111-5118).
	37.	Takeuchi et al. "Living Cationic Polymerization of Ethyl 2- (Vinyloxy) Ethoxyacetate: A Vinyl Ether with an Ether and an Ester function in the pendant" Journal of Polymer Science, Polymer Chemistry Edition, John Wiley and Sons. New York, US, Vol.27, no.10, September 1, 1989 pages 3303-3314
	38.	Rahman et al. "Cationic Polymerization of Vinyl Ether with a Benzoate Pendant: The formation of long lived polymers and the identification of side reactions" J Polymer Science Part A; Journal of Polymer Science, Part A: Polymer Chemistry Dec. 2000 John Wiley & Sons Inc. New York, NY US Vol. 38, No. 24, December 2000 pages 4362-4372.
	39.	Hashimoto, et al. "Cationic Polymerization of Vinyl Ethers with a Benzoate or Phenylacetate Pendant: Synthesis of New Poly (Carboxylic Acid)s with Poly (Vinyl Ether) Backbone" Journal of Macromolecular Science Pure and Applied Chemistry, A 36(3), pp.449-460 (1999).
	40.	"Marking Materials Supporting High Speed and High Resolution," The Imaging Society of Japan, 50 <sup>th</sup> Technical Seminar Text, pp. 50-59, December 4, 2000.
	41.	

Examiner	Date Considered
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	